

**Area Description (see attached map)**

Russell Sage is located 6 miles east of Monroe, Louisiana in Ouachita and Richland Parish. Compartment 10 consists of 1,787 acres located within Sections 8, 9, and 17 of T17N, R5E. The boundaries of compartment 10 are Gourd Bayou to the north, Crusader Trail to the west, Magnolia Trail to the east, and Section 16 to the south.

**Current Conditions**

Compartment 10 has a basal area of 100 ft<sup>2</sup> and a stocking of 102 trees per acre. The average tree diameter is 12.2 inches. Calculated timber volumes for the compartment were 20.94 cords/ac and 1.968 DMBF/ac.

**Forest Types**

The forest types associated with compartment 10 include Nuttall Oak-Overcup Oak (1,136), Nuttall Oak-Elm-Sugarberry (422 acres), Elm-Ash-Sugarberry (135), and Baldcypress-Green Ash (194 acres).

The Nuttall Oak-Overcup Oak type is found on some of the lower areas of compartment 11. Other overstory species that can be found in this forest type include green ash, sweetgum, persimmon, black locust, black willow, red maple, boxelder, and bald cypress. The midstory is comprised of sugarberry, ash, deciduous holly, swamp dogwood, and bitter pecan, ranging from moderate to heavy coverage. Understory vegetation is minimal due to low light conditions, except in areas where tree fall gaps occur. Where canopy gaps exist, understory species found consist of *Rubus*, greenbrier, honeysuckle, red vine, trumpet creeper, Virginia creeper, poison ivy, and rattan.

The Nuttall Oak-Elm-Sugarberry forest type consists primarily of American elm, green ash, and sugarberry. In portions of this forest type Nuttall oak dominates the overstory while in other areas it is found in limited concentrations. Associated overstory species within this forest type include Baldcypress, honeylocust, and persimmon. The midstory is comprised of sugarberry, green ash, deciduous holly, swamp dogwood, and bitter pecan, ranging from moderate to heavy coverage. Understory vegetation is minimal due to low light conditions

The Elm-Ash-Sugarberry forest type is dominated by sugarberry both in the overstory and midstory. Green ash, overcup oak, bitter pecan, boxelder, baldcypress, honeylocust and persimmon are found throughout this forest type in small concentrations. The understory is limited consisting of *Rubus*, poison ivy, red vine, and trumpet creeper.

The Baldcypress-Green Ash forest type is dominated predominately by baldcypress with green ash found in the overstory and midstory. This type is found in drains or frequently flooded areas within the compartment.

### ***Soils***

The soil found in compartment 10 is Perry Clay. This soil is moderately low in fertility and poorly drained. During the winter and spring months the soil is usually wet with yearly flood events occurring.

### ***Wildlife***

Compartment 10 currently provides habitat for a wide variety of game and non-game species of wildlife. Species using compartment 10 include Louisiana black bear, migrant and resident birds, white-tailed deer, squirrels, rabbits, and waterfowl during winter months. Due to the close canopy conditions much of the compartment provides very limited foraging habitat and escape cover for these species. The proposed treatment will improve crown conditions in the overstory while allowing light to penetrate the overstory stimulating growth in the midstory and understory. This will provide browse and escape cover as well as improve structural diversity. Large cavity trees will be retained to provide dens sites and cavities.

### **Objectives**

- Maintain/increase species diversity
- Improve quality of wildlife habitat
- Improve stand health and vigor
- Release advanced regeneration
- Improve vertical structure

### **Methods**

#### *Individual Selection/ Group Selection (302 acres)*

- Trees marked for removal will be marked with two slashes of **blue** paint. One marked at eye level and one on the stump
- Trees of higher quality and favorable crown condition will be retained
- Group harvest .25 to 2 acres will be utilized to release advanced regeneration
- Large cavity trees will be retained along with adjacent stems to provide small untreated areas
- Treatment boundary marked with **orange** paint

### **Concerns**

- Large cavity retention for Louisiana Black Bear
- Protecting regeneration from logging damage
- Limit soil disturbance and erosion

### **Treatment**

Habitat objectives will be accomplished in Compartment 10 by treating 302 acres with a combination of individual selection and group selection methods. Marked trees should vary in diameter and species in order to improve species diversity and structural complexity. Intermediate and suppressed trees should be targeted for removal as well as enough codominant stems to ensure light reaches the forest floor after harvest. Group should be created in areas where advance regeneration is already established or in close proximity to dominant full crowned stems in order to establish regeneration. Den trees should be retained throughout the compartment with adjacent stems also retained to form small .25-.5 acre untreated islands. These

treatment requirements will provide for a more diverse and complex forest structure greatly improving the wildlife habitat found in compartment 10.

**Logging Requirements**

- No harvesting during modern firearms season or wet periods
- Maximum 40' log skid length
- Logging sets and roads kept to a minimum
- Stems topped at point of felling.
- All logging slash at each loading set will be dispersed throughout the cutting units during harvest operations
- Louisiana BMPs will be followed at all times during harvesting operations

**Additional Entry Requirements**

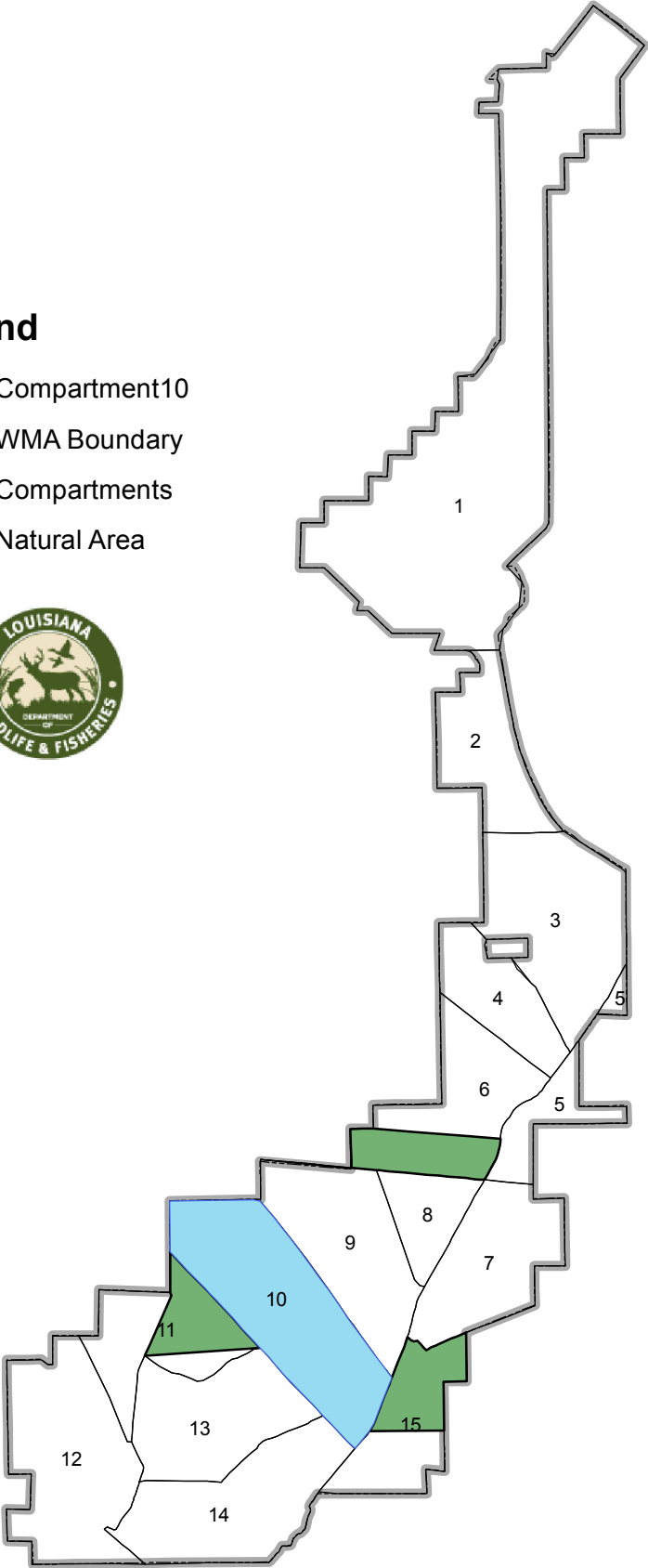
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# Russell Sage WMA

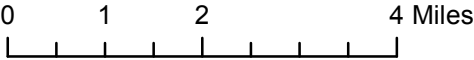
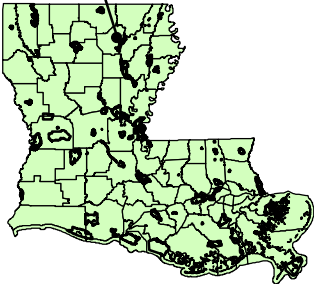
Map 1

## Legend

- Compartment10
- WMA Boundary
- Compartments
- Natural Area



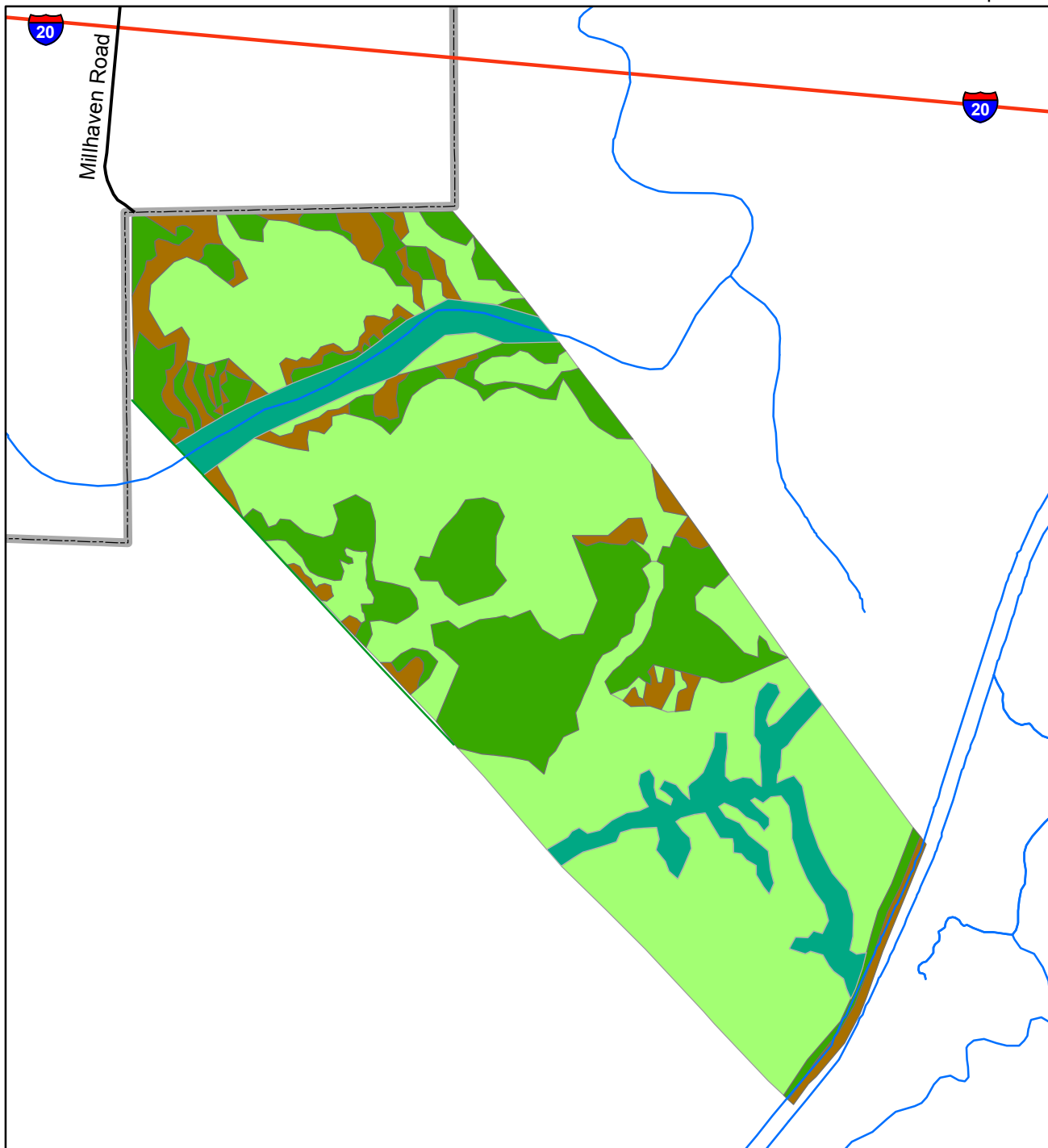
Russell Sage WMA











# Forest Type

## Russell Sage WMA

Map 2



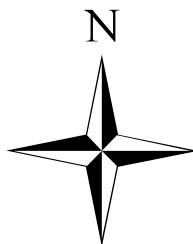
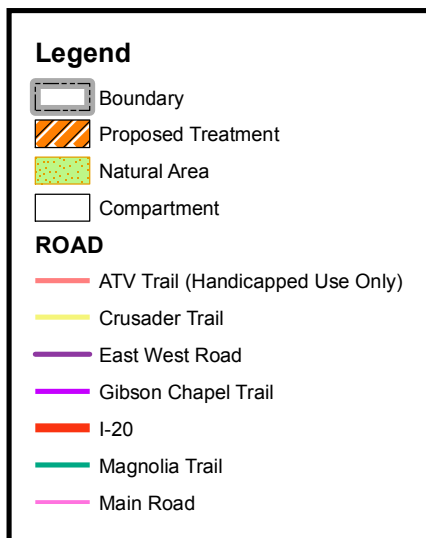
### Legend

- |   |                |   |                                       |
|---|----------------|---|---------------------------------------|
|  | WMA Boundary   |  | Nuttall/ OvercupOak (1,136 Acres)     |
|  | Millhaven Road |  | Nuttall/ Elm/ Sugarberry (422 Acres)  |
|  | I20            |  | Elm/ GreenAsh/ Sugarberry (135 Acres) |
|  | Bayou          |  | Baldcypress/ GreenAsh (194 Acres)     |

0 0.25 0.5 1 Miles



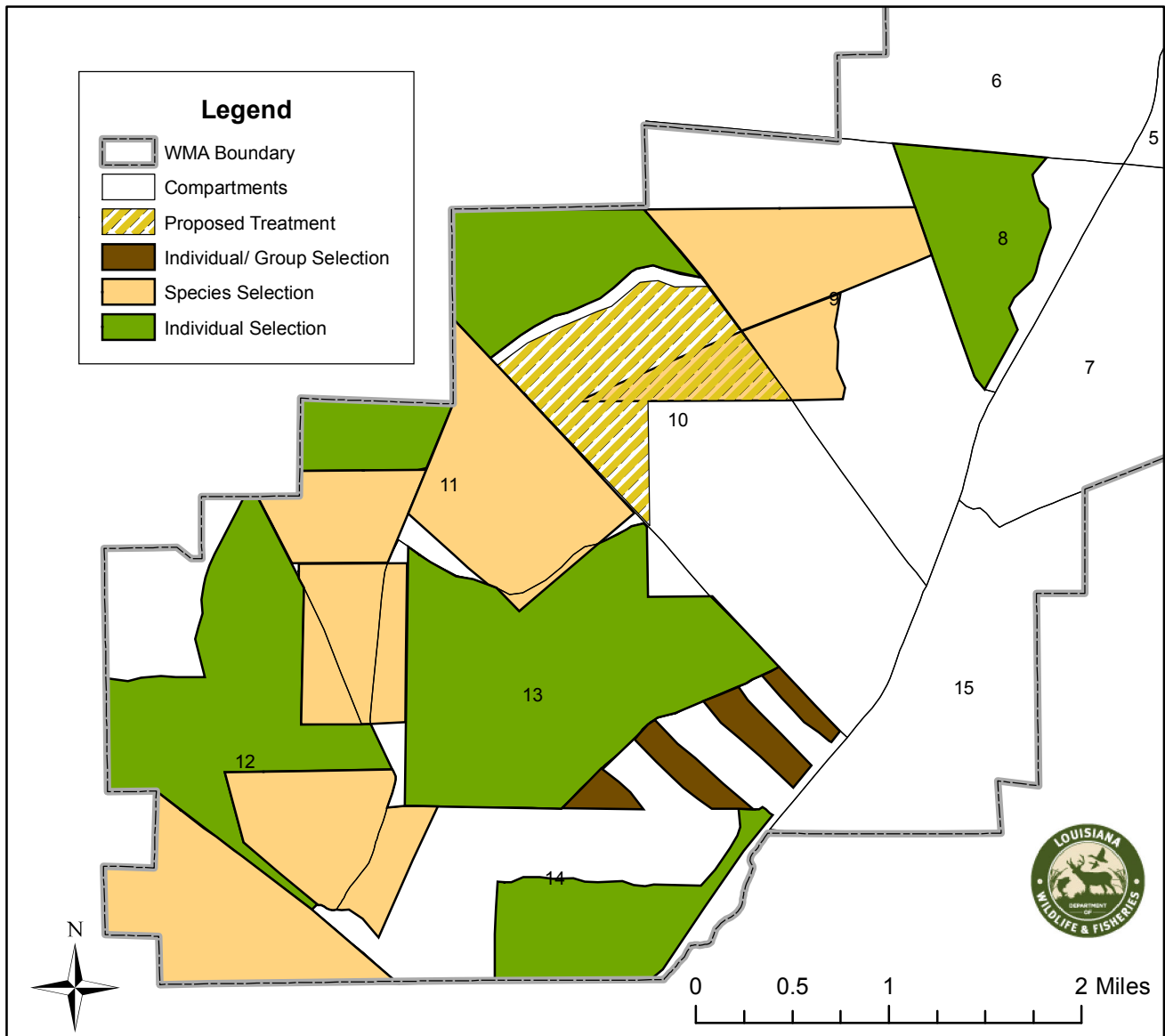
### Map 3



# Adjacent Treatments

## Russell Sage WMA

Map 4



Sale #	Treatment	Acres	Date	Compartment
180-6-64	Species Selection	360	1967	12,14
180-6-64	Species Selection	480	1968	12,14
180-7-166	Species Selection	300	1970	11,12,13
180-3-76	Species Selection	390	1974	9
180-4-49	Species Selection	500	1975	11
180-8-2	Species Selection	225	1978-79	11
180-9-45	Species Selection	215	1980	9,10
180-5-44	Individual Selection	340	1986	10
22-1-87	Individual Selection	160	1987	11
22-2-87	Individual Selection	340	1987	14
22-15-188	Individual/Group Selection	166	1988	14
22-18-194	Individual Selection	338	1994	8
22-19-196	Individual Selection	1495	1996	12
22-21-199	Individual Selection	1200	1999	13
22-22-115	Individual Selection	520		10